

10/806,449

**EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1472	(display panel)and (bipolar pulse)and (half cycle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:16
L2	1472	1 and (bipolar)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:16
L3	450	2 and (different or opposite)same (phase)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:18
L5	239	4 and (opposite polar\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:21
L6	169	4 and (half near\$1 cycle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:23
L8	152	"345"/\$.ccls.and (display panel) and (bipolar pulse) and (half cycle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:25
L9	152	8 and (display panel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:26

## EAST Search History

L10	87	9 and (bipolar) same (pulse or signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:27
L11	32	10 and (predetermined polarity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:28
L12	21	11 and (different phase)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:29
L13	243	(display panel)and (bipolar same pulse same signal) and (half cycle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:30
L14	243	13 and (bipolar)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:31
L15	243	14 and (pulse or wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:32
L16	0	15 and (halfpulse)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:33

## EAST Search History

L17	0	15 and (half pulse)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:33
L18	243	15 and (half pulse)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:33
L19	133	18 and (opposite polarity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:34
L20	133	19 and (pulse same signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:35
L21	57	20and (pulse wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:35
L22	52	21 and (wave form)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:36
L23	20	22 and (predetermined polarity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:37

## EAST Search History

L24	5069	"345"/\$.ccls.and (voltage wave form)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:38
L25	3000	24 and (display panel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:38
L26	1234	25 and (polarity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:39
L27	126	26 and (bipolar pulse)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:40
L28	51	27 and (half cycle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/02/16 10:40

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	37193	display near driv\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 15:26
S2	658572	reduc\$4 same power	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:41
S4	63451	high adj impedance	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:42
S6	51594	half adj cycle	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:42
S8	1172	(345/211).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/22 12:43
S9	8432	S1 and S2	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:43
S10	269	S9 and S8	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:43
S11	197	S10 and S3	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:43
S12	2	S11 and S6	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:43
S14	2779760	Intersecti\$3 or connection\$1 or crossing or interface or junction\$1	US-PGPUB; USPAT	OR	ON	2007/02/02 15:44
S15	1684106	Display\$1 or lcd\$1 or flatscreen\$1 or tv\$1 or flatpanel\$1 or monitor\$1 or plasma\$1 or HDTV\$1	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:44
S16	19638	Row\$1 near5 (electrode\$1 or anode\$1 or cathode\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:45
S17	18761	Column\$1 near5 (electrode\$1 or anode\$1 or cathode\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:45
S18	362698	(electrode\$1 or anode\$1 or cathode\$1) near5 (couple\$1 or pair\$1 or twin\$1 or two\$1 or both\$1 or double\$1 dual\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:46

## EAST Search History

S19	680863	(Capacitive\$1 near2 light near2 emitting near2 element\$1) or led\$1 or ( luminous near2 element\$1) or (light near2 emitting near2 diode\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:47
S20	212035	( high near1 imped\$4) or (high near1 resist\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:52
S21	350	(Bipolar near2 pulse near2 signal)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:53
S22	389501	( different or change or other ) near2 (phase or angle\$1 or change)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:59
S23	20317	(resonance or vibrat\$3) near2 (circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 16:01
S24	1	S15 and S16 and S17 and S18 and S19 and S20 and S21 and S22	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 16:04
S25	1	S15 and S16 and S17 and S18 and S19 and S20 and S21	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 16:06
S26	245	S15 and S16 and S17 and S18 and S19 and S20	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 16:08
S27	32	S15 and (S16 same S17) and (S18 same S19) and S20	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 16:16
S28	37439	display near driv\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/06 15:57
S29	2	"20020039086"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 15:59

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	37193	display near driv\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 15:26
S2	658572	reduc\$4 same power	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:41
S4	63451	high adj impedance	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:42
S6	51594	half adj cycle	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:42
S7	313792	polarity	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:42
S8	1172	(345/211).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/22 12:43
S9	8432	S1 and S2	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:43
S10	269	S9 and S8	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:43
S11	197	S10 and S3	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:43
S12	2	S11 and S6	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/22 12:43
S13	4	"10330638"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/02 15:25
S14	2779760	Intersecti\$3 or connection\$1 or crossing or interface or junction\$1	US-PGPUB; USPAT	OR	ON	2007/02/02 15:44
S15	1684106	Display\$1 or lcd\$1 or flatscreen\$1 or tv\$1 or flatpanel\$1 or monitor\$1 or plasma\$1 or HDTV\$1	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:44
S16	19638	Row\$1 near5 (electrode\$1 or anode\$1 or cathode\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:45

## EAST Search History

S17	18761	Column\$1 near5 (electrode\$1 or anode\$1 or cathode\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:45
S18	362698	(electrode\$1 or anode\$1 or cathode\$1) near5 (couple\$1 or pair\$1 or twin\$1 or two\$1 or both\$1 or double\$1 dual\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:46
S19	680863	(Capacitive\$1 near2 light near2 emitting near2 element\$1) or led\$1 or ( luminous near2 element\$1) or (light near2 emitting near2 diode\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:47
S20	212035	( high near1 imped\$4) or (high near1 resist\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:52
S21	350	(Bipolar near2 pulse near2 signal)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:53
S22	389501	( different or change or other ) near2 (phase or angle\$1 or change)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 15:59
S23	20317	(resonance or vibrat\$3) near2 (circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 16:01
S24	1	S15 and S16 and S17 and S18 and S19 and S20 and S21 and S22	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 16:04
S25	1	S15 and S16 and S17 and S18 and S19 and S20 and S21	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 16:06
S26	245	S15 and S16 and S17 and S18 and S19 and S20	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 16:08
S27	32	S15 and (S16 same S17) and (S18 same S19) and S20	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/02 16:16
S28	37439	display near driv\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/06 15:57
S29	2	"20020039086"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 15:59



## EAST Search History

S31	2	"09/771583"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 16:00
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## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	5134	(display panel) and (row) and (electrode with pair ) and (column)and ((light emitting diod ) or (LED)) and (address\$3 step ) and ((sustain or hold or keep) step)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/16 15:40
L8	1805	345/60	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/16 15:40
L9	371	7 and 8	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/16 15:41

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L16	347	(display panel) and ( <del>row</del> ) and (electrode with pair) and ( <del>column</del> ) and ((light emitting diod) or (LED)) and (address\$3-step) and ((sustain or hold or keep)-step)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/01/16 15:17
L17	1805	<u>345/60</u>	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/01/16 15:18
L18	8	16 and 17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/01/16 15:18

## EAST Search History

S13	4	"10330638"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/02 15:25
S30	0	"09771583"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 16:00
S31	2	"09/771583"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 16:00

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	4470	315/169.3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 11:26
S8	1172	(345/211).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/22 12:43
S33	4	("5202605"   "5936257"   "6046542"   "6538391").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 10:03
S35	3	("6466188").URPN.	USPAT	OR	ON	2007/02/07 10:10
S36	7	("5684686"   "5841648"   "6044231"   "6107985").PN. OR ("6466188").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 10:10
S37	4	("5684686"   "5841648"   "6044231"   "6107985").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 10:10
S38	7	("5684686"   "5841648"   "6044231"   "6107985").PN. OR ("6466188").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 10:12
S39	353	345/66	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 13:06
S40	1	"20020039086"	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 13:07

PLUS Search Results for S/N 10806449, Searched Mon Jan 22 11:28:52 EST 2007  
The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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